



## Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

# SCIENCE

A WEEKLY JOURNAL DEVOTED TO THE ADVANCEMENT OF SCIENCE, PUBLISHING THE  
OFFICIAL NOTICES AND PROCEEDINGS OF THE AMERICAN ASSOCIATION  
FOR THE ADVANCEMENT OF SCIENCE

FRIDAY, AUGUST 2, 1907

## CONTENTS

<i>The American Association for the Advance- ment of Science:</i> —	
<i>The Early Surroundings of Life:</i> DR. A. C. LANE .....	129
<i>Scientific Books:</i> —	
<i>Martin's Researches on the Affinities of the         Elements:</i> DR. J. E. MILLS .....	143
<i>Scientific Journals and Articles</i> .....	145
<i>Societies and Academies:</i> —	
<i>The Geological Society of Washington:</i> DR. FRED E. WRIGHT .....	146
<i>Discussion and Correspondence:</i> —	
<i>Double-ended Drumsticks:</i> H. NEWELL WARDLE. <i>Are Bulls excited by Red?</i> X. <i>Nomenclature of the Chironomidae:</i> G. W. KIRKALDY .....	149
<i>Special Articles:</i> —	
<i>Specification of Diagrams in Applied Geom-         etry:</i> PROFESSOR CARL BARUS. <i>The Chro-         mosomes of <i>Eriothera Lamarckiana</i> and         one of its Mutants, <i>O. Gigas</i>:</i> ANNE M. LUTZ .....	149
<i>Current Notes on Land Forms:</i> —	
<i>Diamond Head and Mohokea:</i> D. W. J. A. Peneplain in Equatorial Africa: W. M. D. A Prehistoric Landslide in the Alps: W. M. D. ....	152
<i>Preliminary List of Scientific Communi-     cations to be presented at the Seventh Inter-     national Zoological Congress:</i> PROFESSOR G. H. PARKER .....	154
<i>Radium Emanation:</i> SIR WILLIAM RAMSAY .	158
<i>Scientific Notes and News</i> .....	159
<i>University and Educational News</i> .....	160

MSS. intended for publication and books, etc., intended for review should be sent to the Editor of SCIENCE, Garrison-on-Hudson, N. Y.

## THE EARLY SURROUNDINGS OF LIFE<sup>1</sup>

THE American Association in its Plattsburg meeting is close to the shore lines of the first ocean that seems to have contained organic life in variety, or rather a life that had such hard parts that a tolerably complete record of the main groups and families has come down to us. It is then natural to consider what the conditions may have been under which this so varied and complex life had developed, without leaving more trace of its existence.

Reading over Darwin's "Origin of Species," one can readily see that of all the objections to his theory which he so fully and fairly presented, that which he deemed the most serious was the lack of connecting links in the geological record, and in particular the sudden appearance of the varied primordial life.

He conceded that this latter objection was valid so far as one then knew, and ventured only to suggest that while the continents and oceans had been in grand outline fairly permanent since early Paleozoic, during longer eons previous, which he felt must have elapsed, conditions might have been reversed, and the sediments then laid down have been buried beneath the oceans or altered with their life beyond recognition.

At about the same time that Darwin

<sup>1</sup> Vice-presidential address before Section E of the American Association for the Advancement of Science, also complimentary to the Catholic Summer School at the Champlain Assembly near Plattsburg, N. Y.